

ABSTRACT

An antenna matching apparatus capable of eliminating impedance mismatching produced when the antenna element is placed close to the human body in a short time and
5 reducing power loss due to impedance mismatching. This apparatus connects variable capacitance capacitors VC1 and VC2 for impedance adjustment to transmission antenna element TA1, connects variable capacitance capacitors VC3 and VC4 to reception antenna element RA1 respectively,
10 provides beforehand capacitance values of respective variable capacitance capacitors which are impedance matched in a table in a one-to-one correspondence with the distances between the antenna elements and human body and stores the table in storage section (106). The
15 apparatus completes adaptive control processing for any one of transmission antenna element TA1 and reception antenna element RA1, reads other capacitance values corresponding to the capacitance value at that moment from the table and performs adaptive control processing
20 on other antenna elements using the read values as initial values.